CPCI Loadboard
3 U

The CPCI load test card serves to simulate loads on CPCI systems.
Both electrical and thermal conditions can be simulated.

The following load streams can be switched with the coding and tilt lever switches located on the front plate:

	load current	Control options
5 V	0 A ... 8.25 A	in 0.55 A stages
3.3 V	0 A ... 10.5 A	in 0.7 A stages
+12 V		off/1 A
-12 V		off/1 A

5 V must always be connected as control voltage.

Voltages are tapped at the CPCI bus via the P1 plug.

Excess temperature protection
The load test card switches itself off at a temperature on the topside of the load test card or in the rack of 120 °C +-5 K.
Once cooled, it turns itself on again.

Please note:
The load test card becomes hot during operation.

The incoming voltage levels for the voltages 5 V, +12 V, 3.3 V and -12 V can be measured at measuring points close to the plug P1. These measuring points are run via the plug X1 (on the front plate).

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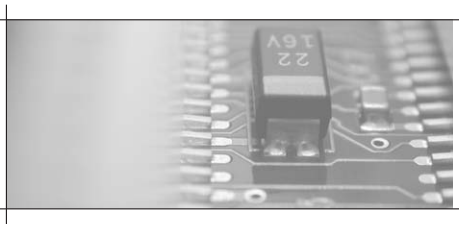

Furthermore, 4 PTC resistors (PT100) are attached to the load test card: On the front at bottom and top and on the back at the bottom and top.
It is possible to measure the temperature on the load test card or in the rack via these.
These PTC resistor connections are also run via the plug X1.

Pin Assignments

Pin	P1 CPCI							X1
	ROW Z	ROW A	ROW B	ROW C	ROW D	ROW E	ROW F	
1	GND	5 V	-12 V	NC	12 V	5 V	GND	5V-Measuring point
2	GND	NC	5 V	NC	NC	NC	GND	V(I/O)-Measuring point
3	GND	NC	NC	NC	5 V	NC	GND	3.3V-Measuring point
4	GND	NC	NC	V(I/O)	NC	NC	GND	NC
5	GND	NC	NC	NC	GND	NC	GND	12V-Measuring point
6	GND	NC	GND	3.3 V	NC	NC	GND	-12V-Measuring point
7	GND	NC	NC	NC	GND	NC	GND	PTC1 Pin 1
8	GND	NC	GND	V(I/O)	NC	NC	GND	PTC3 Pin 1
9	GND	NC	GND	NC	GND	NC	GND	PTC1 Pin 2
10	GND	NC	GND	3.3 V	NC	NC	GND	PTC3 Pin 2
11	GND	NC	NC	NC	GND	NC	GND	PTC2 Pin 1
12	KEY AREA							PTC4 Pin 1
13								PTC2 Pin 2
14								PTC4 Pin 2
15	GND	3.3 V	NC	NC	GND	NC	GND	GND-Measuring point (connector P1 top)
16	GND	NC	GND	V(I/O)	NC	NC	GND	GND-Measuring point (connector P1 bottom)
17	GND	3.3 V	NC	NC	GND	NC	GND	
18	GND	NC	GND	3.3 V	NC	NC	GND	
19	GND	3.3 V	NC	NC	GND	NC	GND	
20	GND	NC	GND	V(I/O)	NC	NC	GND	
21	GND	3.3 V	NC	NC	NC	NC	GND	
22	GND	NC	GND	3.3 V	NC	NC	GND	
23	GND	3.3 V	NC	NC	NC	NC	GND	
24	GND	NC	5 V	V(I/O)	NC	NC	GND	
25	GND	5 V	NC	NC	NC	5 V	GND	

NC = not connected

V(I/O) is only led through as Sense to X1.

Order number

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